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Borough of Worthing



ANNUAL REPORT

on the

HEALTH OF WORTHING

and

**Meteorological Observations
for the Year**

1951



G. H. PRINGLE,
M.R.C.S., L.R.C.P., D.P.H.
Medical Officer of Health.



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Health Department,
Worthing Lodge,
Stoke Abbott Road,
Worthing.
August, 1952.

*To The Worshipful the Mayor, Aldermen and Councillors of the Borough
of Worthing.*

Madam Mayor, Ladies and Gentlemen,

I present herewith my fifth Annual Report on the Health of Worthing,
together with the Meteorological Observations for the year.

The general standard of health of the town was satisfactory during the
year.

Of the common notifiable infectious diseases measles, which has a biennial
incidence, reached epidemic proportions during the early part of the year,
and whooping cough was also prevalent during the same period. On the
other hand, there were only 33 cases of scarlet fever, and for the fourth
successive year there were no cases of diphtheria. It is also satisfactory to
note that there was only one case of poliomyelitis during the year and that
this case made a complete recovery.

The high proportion of aged people in the Borough continues to place
a heavy strain on the hospital, home nursing, domestic help and welfare
services. Although administered by different authorities co-operation
between these services, which is essential for their smooth and efficient
working, is good.

I should like to express my appreciation of the deep interest taken in
the Health Services of the Borough by the Chairman and members of the
Health Committee and by other members of the Council.

I also wish to record my sincere thanks to Dr. Aitken, my Deputy, to
Mr. White and the District Inspectors, and to every member of the clerical
staff for all their assistance and co-operation.

I am,

Madam Mayor, Ladies and Gentlemen,

Your obedient servant,

G. H. PRINGLE,
Medical Officer of Health.

HEALTH COMMITTEE :

(as at 31st December, 1951).

COUNCILLOR R. A. MITCHELL, (*Chairman*)

COUNCILLOR T. A. CLIFFORD, (*Vice-Chairman*)

ALDERMAN E. R. WILLOUGHBY, F.R.H.S.

COUNCILLORS MRS. M. F. CALE, C. W. W. COOPER,

MRS. M. M. GRAY, F. KENTON, E. E. KEYS, P. H. LUMLEY,

MRS. D. STAPLETON SKINNER, L. WHITEHOUSE.

HEALTH DEPARTMENT STAFF :

(as at 31.12.51)

Medical Officer of Health

G. H. PRINGLE, M.R.C.S., L.R.C.P., D.P.H.

Deputy Medical Officer of Health

J. C. AITKEN, M.B., CH.B., D.P.H.

Chief Sanitary Inspector : S. S. WHITE, M.S.I.A., A.M.I.S.E.

Deputy Chief Sanitary Inspector : H. F. JOWETT, M.S.I.A.

District Sanitary Inspectors : D. E. PARKER, M.S.I.A.
A. H. MATTHEWS, M.S.I.A.
M. BLAKE, A.R.S.I

Clerical Staff :

Chief Clerk : T. L. CANTON

Clerks : MISS B. M. WHITE
MISS P. M. MAY
MRS. P. M. LOWE
D. TAYLOR

Meteorological Observers : T. L. CANTON
D. E. PARKER

Other Staff :

Rodent Operators : F. J. MARIGOLD
J. H. OGLESBY

Disinfector and General Assistant : ... D. WEST

GENERAL STATISTICS, 1951.

Area of Municipal Borough, including foreshore	8512.742 acres
Population (Census 1921)	31,520
Population (Census 1931)	46,230
Population (Census 1951)	69,375
Registrar-General's Estimate of Resident Population (1951) ..	68,060
Number of inhabited houses (1921)	7,710
Number of inhabited houses (1.4.51)	22,753
Rateable Value (1.4.51)	£1,012,020
Sum represented by a penny rate, 1950-51	£4,116 15s. 2d.

BIRTH RATE. 10.3 per 1,000 population. Birth-rate after correction by the factor received from the Registrar-General, 12.2 per 1,000. (Number of births, 699).
England and Wales, 15.9 per 1,000.

DEATH RATES (all causes). 20.2 per 1,000 population. Death-rate after correction by the factor received from the Registrar-General, 11.1 per 1,000. (Number of deaths, 1,375).

England and Wales, 12.5 per 1,000.

Infant rate, 25 per 1,000 live births. (Number of deaths, 17).

England and Wales, 30 per 1,000 live births.

Maternal rate, nil.

England and Wales, 0.79 per 1,000 births.

Tuberculosis rate, 0.26 per 1,000 population. (Number of deaths, 18).

England and Wales, 0.31 per 1,000 population.

MEAN ANNUAL TEMPERATURE (1951) 51.2 degrees Fahr.

HOURS OF BRIGHT SUNSHINE (1951), 1,838.4 hours ; daily average, 5.03 hours ; Summer, 6.98 hours ; Winter, 3.08 hours.

TOTAL RAINFALL (1951) 37.98 inches

VITAL STATISTICS.

The Registrar-General's estimate of the mid-year population of Worthing was 68,060, and this estimate has been adopted for the purposes of the statistics contained in this Report.

BIRTHS.

The number of registered births (live and still) was 699 namely:—

		<i>Total</i>	<i>Male</i>	<i>Female</i>
Live Births-Legitimate	..	643	353	290
Illegitimate	..	44	22	22
Still Births-Legitimate	..	11	7	4
Illegitimate	..	1	1	—

The Registrar-General provides a factor for the purpose of rendering the birth-rate of the Borough comparable with that of a district the population of which is of standard age and sex distribution. Accordingly the birth-rate is now multiplied by this factor which represents the birth-rate for comparison with other districts. The birth-rate of Worthing for 1951 adjusted in this manner is raised from 10.3 to 12.2 per 1,000 of the population. The birth-rate for England and Wales is 15.9 per 1,000.

Birth-rate per 1,000 population:—

Live Births	..	..	..	..	10.1
Still Births	..	..	..	..	0.18

Birth-rate per 1,000 population after applying
"Area Comparability Factor":—

Live Births	..	..	..	..	12.0
Still Births	..	..	..	..	0.25

Birth-rate (Live and Still) per 1,000 population

..	..	..	..	..	10.3
----	----	----	----	----	------

Birth-rate (Live and Still) per 1,000 population after applying "Area Comparability Factor":—

..	..	..	..	..	12.2
----	----	----	----	----	------

Still Birth-rate per 1,000 (Live & Still) births

..	..	..	..	..	17.2
----	----	----	----	----	------

Illegitimate births numbered 45 or 6.4 per cent. of the total births.

STILL-BIRTHS.

The registration of still-births is made compulsory by the Births and Deaths Registration Act, 1926.

During 1951 there were 12 still-births registered to Worthing residents representing a still-birth rate of 17.2 per 1,000 births (live and still) registered. Of the 12 still-births 1 (8.4 per cent.) was registered as illegitimate.

DEATHS.

The number of deaths registered in the Borough during 1951 was 1,215. Of these 160 were deaths of non-residents and were transferred to the districts in which the persons ordinarily resided. There were, on the other hand, 320 deaths of Worthing residents registered outside the Borough. The total (corrected) number of deaths assigned to the Borough was 1,375 (males 574, females 801). This gives a recorded death-rate of 20.2 compared with 12.5 for England and Wales. This recorded death rate, however, which is a crude rate, cannot be used to compare the mortality with that of other districts as the populations of all areas are not similarly constituted as regards the proportions of their sex and age group components.

The Registrar-General supplies an "Area Comparability Factor" and the crude death rate multiplied by this figure can then be compared with the death rate of the country as a whole or with the mortality of any other local area. The corrected death-rate so obtained is 11.1 per 1,000 population.

INFANT MORTALITY.

During 1951 the deaths of 17 infants under one year of age were registered. The total number of live births registered during the year was 687 giving an infantile mortality rate of 24.7 per 1,000 live births. The infantile mortality rate in England and Wales during 1951 was 29.6.

The Worthing rate is the lowest for two years and is well below the average for the past decade.

The mortality rate in Worthing among female infants has during the last five years been roughly four-fifths of that for male infants, the actual figures being females 11.5, males 14.4 per 1,000 births.

There were 11 deaths of infants during the first four weeks of life (or 64.7 per cent. of the total infant deaths) as compared with 16 deaths (or 72.8 per cent) in 1950.

The causes of the 17 infant deaths are shown in detail on page 17.

MATERNAL MORTALITY.

There were no maternal deaths during the year.

CANCER MORTALITY.

The number of deaths of Worthing residents from cancer was 248 (males 104, females 144) as compared with 237 in 1950, 213 in 1949, 183 in 1948, 200 in 1947 and 196 in 1946. The death rate from the disease per 1,000 of the population was 3.64. The deaths from cancer constitute 18.0 per cent. of the total Worthing deaths during the year.

The following gives the comparative average death-rates from cancer in Worthing for quinquennial periods since 1910, and for each year since 1945:—

1910-1914	..	..	1.32	1945	..	..	..	3.48
1915-1919	..	..	2.01	1946	..	..	..	3.02
1920-1924	..	..	1.94	1947	..	..	..	3.00
1925-1929	..	..	2.29	1948	..	..	..	2.71
1930-1934	..	..	2.33	1949	..	..	..	3.10
1935-1939	..	..	2.53	1950	..	..	..	3.47
1940-1944	..	..	3.11	1951	..	..	..	3.64

The following table shows the localisation of the disease in the case of the 248 deaths recorded.

Localisation					No. of deaths		
					Male	Female	Total
Stomach	..	..	..	..	13	20	33
Lungs	..	..	..	..	26	9	35
Breast	..	..	..	..	—	34	34
Uterus	..	..	..	..	—	13	13
Other and unspecified organs	..				65	68	133
Total					104	144	248

The mortality from cancer during the last 20 years is shown as follows:

Year	Deaths		Total	Death rate per 1,000 of the population
	Males	Females		
1932 ..	38	63	101	2.17
1933 ..	42	62	104	2.14
1934 ..	60	73	133	2.58
1935 ..	53	72	125	2.32
1936 ..	54	99	153	2.75
1937 ..	51	87	138	2.35
1938 ..	64	87	151	2.56
1939 ..	57	106	163	2.66
1940 ..	82	104	186	2.73
1941 ..	69	92	161	2.88
1942 ..	76	113	189	3.47
1943 ..	79	90	169	3.22
1944 ..	68	109	177	3.27
1945 ..	80	124	204	3.48
1946 ..	76	120	196	3.02
1947 ..	84	116	200	3.00
1948 ..	80	103	183	2.71
1949 ..	95	118	213	3.10
1950 ..	87	150	237	3.47
1951 ..	104	144	248	3.64

This death rate is considerably higher than that for the country as a whole, and this is accounted for by the high proportion of aged persons resident in the Borough.

INFLUENZA AND PNEUMONIA MORTALITY.

There were 69 deaths from these diseases as against 57 in 1950, 46 in 1949, 36 in 1948 and 42 in 1947. The mortality rate per 1,000 of the population was 1.02, as compared with 0.83 in 1950, 0.63 in 1949, 0.56 in 1948 and 0.63 in 1947. The rate for England and Wales in 1951 was 0.99 per 1,000 population.

TUBERCULOSIS MORTALITY.

Deaths from tuberculosis numbered 18, of which 16, (i.e. 89 per cent.) were due to pulmonary tuberculosis.

The death-rate from tuberculosis was 0.26 per 1,000 population compared with 0.37 in 1950, 0.26 in 1949 and 0.34 in 1948.

The rate for England and Wales in 1951 was 0.31 per 1,000 population.

DEATHS FROM HEART DISEASE.

Of the 1,375 deaths, heart disease caused roughly 1 in every 3 (males 218, females 303). It represented 38.0 per cent. of the total deaths from all causes and was equivalent to a death rate of 7.65 per 1,000 of the population.

TABLE I.

Year.	Births.			All causes.			Infants under 1 year.		Deaths.			Registrar General's Population				
	No.	R.*	No.	R.*	No.	R.**	Maternal Mortality		Zymotic.		Tuberculosis		Cancer.	No.	R.*	
							Sepsis.	Other Causes	Rate†	No.	R.*	No.				R.*
1908	531	19.9	414	15.6	58	109	1	4	9.42	18	0.67	37	1.39	47	1.77	26,600
9	518	19.0	360	13.2	39	75	—	—	—	12	0.44	45	1.65	33	1.21	27,200
10	548	19.7	388	13.9	36	66	1	—	1.89	8	0.28	43	1.55	41	1.47	27,800
11	532	17.4	397	13.0	56	105	—	—	—	50	1.64	37	1.21	45	1.47	30,500
12	486	15.5	355	11.3	20	41	—	—	—	5	0.16	37	1.18	37	1.18	31,300
13	504	15.6	400	12.4	34	67	1	1	3.97	12	0.37	27	0.84	39	1.22	32,160
14	483	14.6	428	13.0	29	60	—	—	2.07	18	0.54	34	1.03	42	1.27	33,000
15	457	14.2	507	15.9	28	61	—	3	6.56	14	0.44	56	1.75	49	1.53	32,000
16	468	15.5	418	15.5	31	66	—	—	—	7	0.18	46	1.66	58	2.09	27,766
17	359	11.9	415	15.0	23	64	—	—	—	9	0.32	41	1.48	63	2.28	27,662
18	419	12.9	511	17.7	32	76	—	—	—	13	0.45	38	1.32	73	2.53	28,780
19	376	12.1	478	15.7	21	56	—	—	—	4	0.13	35	1.15	49	1.61	30,345
20	583	18.5	434	13.7	23	39	1	—	2.39	6	0.19	29	0.92	50	1.58	31,555
21	487	15.5	441	14.0	29	59	—	2	—	7	0.20	32	1.01	63	1.99	31,520
22	404	12.8	472	15.0	21	52	1	—	1.95	2	0.08	35	1.11	59	1.87	31,460
23	401	12.8	428	13.6	18	45	1	1	3.89	4	0.14	26	0.83	55	1.75	31,440
24	426	13.3	537	16.6	21	49	—	—	2.35	2	0.07	32	0.99	81	2.51	32,260
25	442	13.4	452	13.7	21	48	—	—	2.26	9	0.27	28	0.85	60	1.82	32,950
26	423	12.1	536	15.3	17	40	—	1	2.36	5	0.14	30	0.85	90	2.56	35,060
27	432	11.9	571	15.7	20	46	1	2	6.94	7	0.19	28	0.76	84	2.31	36,350
28	462	12.2	548	14.4	17	37	1	1	4.33	12	0.31	26	0.68	87	2.29	38,030
29	494	11.9	684	16.5	12	24	—	—	2.02	4	0.10	34	0.82	103	2.49	41,410
30	534	12.6	640	15.1	18	36	—	2	3.75	3	0.07	37	0.87	104	2.46	42,340
31	553	12.5	690	15.5	20	37	2	2	7.23	5	0.11	46	1.04	101	2.28	44,320
32	513	11.0	781	16.8	20	39	4	3	13.64	9	0.20	39	0.84	101	2.17	46,470
33	514	10.6	715	14.7	18	38	2	—	3.89	6	0.12	33	0.68	104	2.14	48,530
34	615	11.9	756	14.6	12	20	—	1	1.63	3	0.06	34	0.66	133	2.58	51,580
35	621	11.5	744	14.0	25	40	1	—	1.61	4	0.07	36	0.67	125	2.32	53,930
36	687	12.4	870	15.6	23	35	—	3	4.36	3	0.05	25	0.45	153	2.75	55,540
37	729	12.4	916	15.6	33	45	—	—	—	2	0.03	42	0.72	138	2.35	58,600
38	712	10.8	917	15.5	20	29	—	—	—	4	0.07	31	0.52	151	2.56	59,080
39	763	12.4	1035	16.9	18	23	1	1	1.40	4	0.06	26	0.34	163	2.66	61,210
40	657	9.6	1165	17.6	32	49	—	2	3.00	5	0.07	48	0.70	186	2.73	66,350
41	590	10.1	1044	18.7	22	36	—	1	1.80	3	0.05	39	0.42	161	2.88	55,710
42	724	13.3	1116	20.5	25	35	1	1	2.80	3	0.05	23	0.42	189	3.47	54,500
43	775	14.3	1073	20.4	24	32	—	3	3.90	1	0.01	33	0.63	169	3.22	52,500
44	924	17.1	1037	19.2	40	44	—	2	2.10	10	0.18	23	0.42	177	3.27	54,080
45	811	13.8	1173	20.0	31	39	—	1	1.20	2	0.03	32	0.54	204	3.48	58,620
46	1059	16.3	1223	18.8	50	48	—	—	—	11	0.17	22	0.34	196	3.02	64,860
47	1003	15.0	1251	18.7	31	32	—	—	—	4	0.04	26	0.38	200	3.00	66,750
48	861	12.8	1103	16.3	20	24	—	—	—	—	—	23	0.34	183	2.71	67,520
49	818	12.0	1209	17.8	16	20	—	1	1.20	2	0.03	18	0.26	213	3.10	67,940
50	714	10.4	1336	19.5	22	31	—	1	1.40	3	0.04	25	0.37	237	3.47	68,350
51	699	10.3	1375	20.2	17	25	—	—	—	3	0.04	18	0.26	248	3.64	68,060

TABLE II.
BIRTH RATES, CIVILIAN DEATH RATES, ANALYSIS OF MORTALITY,
MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN
INFECTIOUS DISEASES IN THE YEAR 1951.
(Provisional figures based on Quarterly Returns).

	England and Wales	126 County Boroughs and Great Towns, including London	148 Smaller Towns (Resident Popu- lations 25,000 to 50,000 1931 Census)	London Administra- tive County	Worthing
Rates per 1,000 Population.					
Births:					
Live	15.5	17.3	16.7	17.8	12.0
Still	0.36	0.45	0.38	0.37	0.25
Deaths:					
All causes ..	12.5	13.4	12.5	13.1	11.1
Typhoid and ..					
Para-Typhoid ..					
Fevers ..	0.00	0.00	0.00	0.00	0.00
Smallpox ..	—	—	—	—	—
Pneumonia ..	0.61	0.65	0.63	0.61	0.66
Tuberculosis ..	0.31	0.37	0.31	0.38	0.26
Whooping					
Cough	0.01	0.01	0.01	0.01	0.01
Diphtheria ..	0.00	0.00	0.00	0.00	0.00
Influenza ..	0.38	0.36	0.38	0.23	0.35
Acute					
Poliomyelitis & Polioencephalitis	0.00	0.01	0.01	0.00	0.00
Notifications:					
(corrected):					
Typhoid Fever	0.00	0.00	0.00	0.01	0.04
Paratyphoid					
Fever	0.02	0.03	0.02	0.01	—
Meningococcal					
Infection ..	0.03	0.04	0.03	0.03	—
Scarlet Fever	1.11	1.20	1.20	1.10	0.50
Whooping					
Cough	3.87	3.62	4.00	3.11	3.66
Diphtheria ..	0.02	0.02	0.03	0.01	—
Erysipelas ..	0.14	0.15	0.12	0.15	0.12
Smallpox ..	0.00	0.00	0.00	—	—
Measles ..	14.07	13.93	14.82	14.64	13.53
Pneumonia ..	0.99	1.04	0.96	0.72	0.29
Acute					
Poliomyelitis					
(including Polio- encephalitis)					
Paralytic ..	0.03	0.03	0.03	0.03	0.01
Non-Paralytic	0.02	0.02	0.03	0.02	—
Food Poisoning	0.13	0.15	0.08	0.23	—
Rates per 1,000 Live Births.					
Deaths:					
All causes under					
1 year of age ..	29.6	33.9	27.6	26.4	24.7
Diarrhoea and					
Enteritis under					
2 years of age ..	1.4	1.6	1.0	0.7	—
Rates per 1,000 Total Births (i.e., Live and Still).					
Maternal					
Mortality:					
	0.79	<—	Not Available	—>	0.00
Notifications: ..					
Puerperal Fever					
and Pyrexia ..	10.66	13.77	8.08	14.90	24.32

TABLE III.

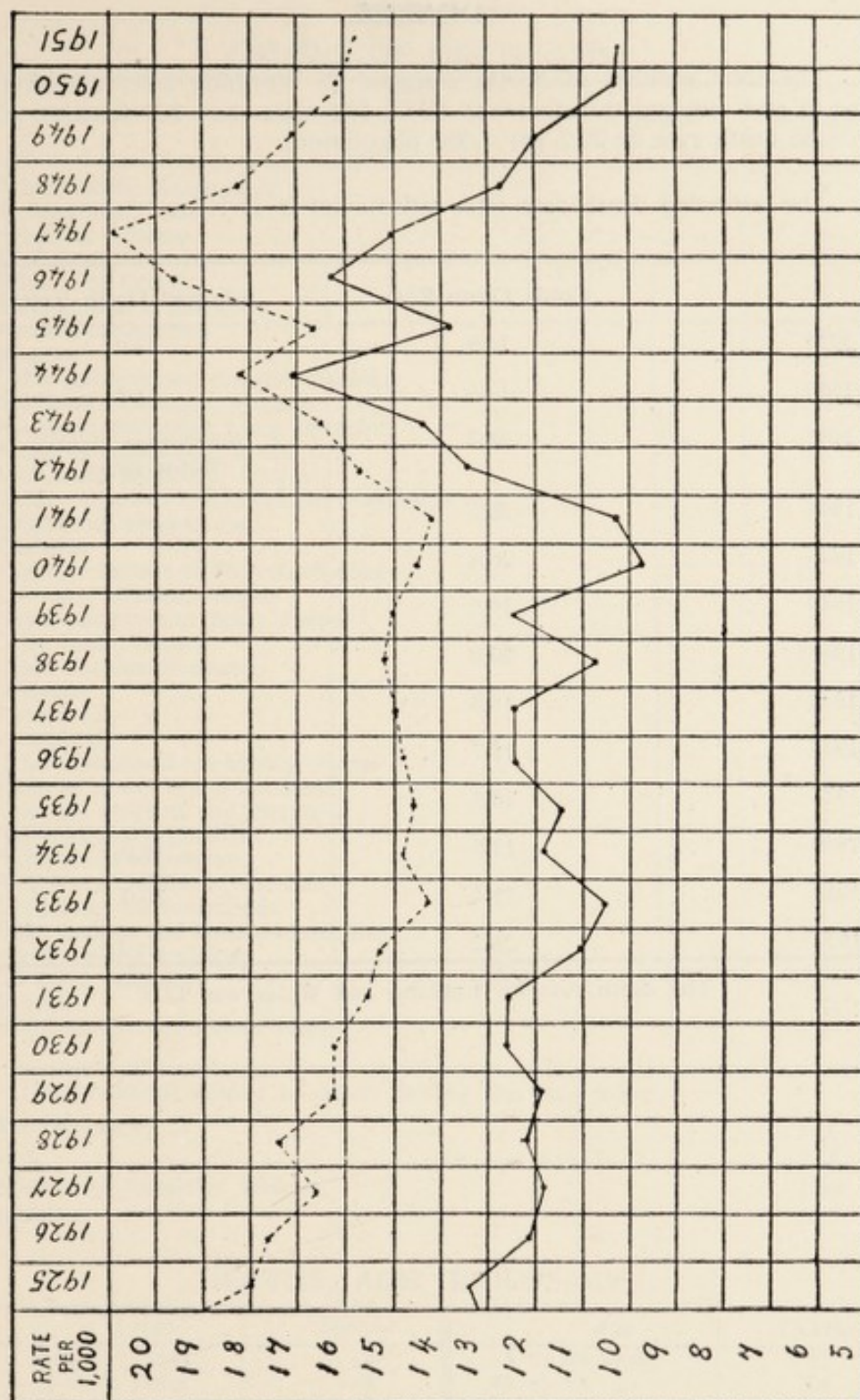
BIRTHS.

The following table shows the number of births, and birth rate of Worthing, for the last 40 years.

		Total Births	Males	Females	Birth Rate	Adjusted Birth Rate
1912	..	486	246	240	15.5	—
1913	..	504	251	253	15.6	—
1914	..	483	233	250	14.6	—
1915	..	457	231	226	14.2	—
1916	..	468	225	243	15.5	—
1917	..	359	193	166	11.9	—
1918	..	419	219	200	12.9	—
1919	..	376	179	197	12.1	—
1920	..	583	281	302	18.5	—
1921	..	487	265	222	15.5	—
1922	..	404	221	183	12.8	—
1923	..	401	214	187	12.8	—
1924	..	426	249	177	13.3	—
1925	..	442	223	219	13.4	—
1926	..	423	218	205	12.1	—
1927	..	432	223	209	11.9	—
1928	..	462	223	239	12.2	—
1929	..	494	242	252	11.9	—
1930	..	534	278	256	12.6	—
1931	..	553	299	254	12.5	—
1932	..	513	256	257	11.0	—
1933	..	514	255	259	10.6	—
1934	..	615	292	323	11.9	—
1935	..	621	296	325	11.5	—
1936	..	687	340	347	12.4	—
1937	..	729	378	351	12.4	—
1938	..	712	347	365	10.8	—
1939	..	763	400	363	12.4	—
1940	..	657	362	295	9.6	—
1941	..	590	305	285	10.1	—
1942	..	724	346	378	13.3	—
1943	..	775	417	358	14.3	—
1944	..	924	491	433	17.1	—
1945	..	811	427	384	13.8	—
1946	..	1059	536	523	16.3	—
1947	..	1003	527	476	15.0	—
1948	..	861	453	408	12.8	—
1949	..	818	444	374	12.0	—
1950	..	714	350	364	10.4	12.4
1951	..	699	383	316	10.3	12.2

The birth rate for England and Wales for 1951 was 15.9 per 1,000.

CHART SHOWING WORTHING UNADJUSTED BIRTH RATE SINCE 1925.



(Dotted line represents Rate for England and Wales)

DEATHS.

The total number of deaths assigned to Worthing after allowing for inward and outward transfers was 1,375, 574 males and 801 females, giving a crude death rate of 20.2 per 1,000 population.

The corrected death rate after adjustment is 11.1.

			Crude Death Rate	Adjusted Death Rate
1939	..	..	16.9	11.0
1940	..	..	17.6	11.1
1941	..	..	18.7	(no comparability factor issued).
1942	..	..	20.5	"
1943	..	..	20.4	"
1944	..	..	19.2	"
1945	..	..	20.0	"
1946	..	..	18.8	"
1947	..	..	18.7	"
1948	..	..	16.3	"
1949	..	..	17.8	10.0
1950	..	..	19.5	10.9
1951	..	..	20.2	11.1

The death rate for England and Wales was 12.5.

TABLE IV
CAUSES OF DEATH—1951.

All Causes	Males 574	Females 801
Tuberculosis, Respiratory	7	9
Tuberculosis, other	1	1
Syphilitic Disease	2	2
Diphtheria	—	—
Whooping Cough	—	1
Meningococcal infections	—	—
Acute Poliomyelitis	—	—
Measles	1	1
Other infective and parasitic diseases	1	1
Malignant neoplasm, stomach	13	20
Malignant neoplasm, Lung, Bronchus	26	9
Malignant neoplasm, Breast	—	34
Malignant neoplasm, Uterus	—	13
Other malignant and lymphatic neoplasms	65	68
Leukaemia aleukaemia	2	2
Diabetes	3	4
Vascular lesions of Nervous System	60	136
Coronary disease, Angina	92	85
Hypertension with heart disease	11	18
Other heart disease	115	200
Other circulatory disease	12	27
Influenza	9	15
Pneumonia	16	29
Bronchitis	28	19
Other diseases of respiratory system	8	3
Ulcer of stomach and duodenum	8	9
Gastritis, enteritis and diarrhoea	2	4
Nephritis and nephrosis	7	8
Hyperplasia of prostate	15	—
Pregnancy, childbirth, abortion	—	—
Congenital malformations	4	1
Other defined and ill-defined diseases	48	55
Motor vehicle accidents	1	1
All other accidents	9	21
Suicide	6	4
Homicide and operations of war	2	1

The principal causes of death during the year were:—

Heart Diseases	521
Cancer	248
Intra-cranial vascular lesions	196
Bronchitis	47

DEATHS, AGE GROUPS—1951.

Age	Deaths	Age	Deaths
Under 1 year	17	35 to 44 years	17
1 to 2 years	4	45 to 54 "	65
3 to 4 "	2	55 to 59 "	59
5 to 9 "	3	60 to 64 "	86
10 to 14 "	—	65 to 69 "	138
15 to 19 "	—	70 to 79 "	509
20 to 24 "	2	80 to 89 "	392
25 to 34 "	9	90 years and over	72
Total number of deaths ... 1375.			

This analysis shows that 70.8 per cent. of the deaths were of persons aged 70 years of age and upwards.

The number of deaths occurring in the four quarters of the year was as follows:—

	Deaths	Adjusted Death rate per 1,000 Population	Rate for England & Wales
First Quarter	474	15.3	19.1
Second Quarter	319	10.3	11.1
Third Quarter	258	8.3	9.1
Fourth Quarter	324	10.5	11.0
	1375	11.1	12.5

TABLE V.
BIRTH RATES, DEATH RATES,
AND INFANTILE MORTALITY RATES, 1931—1951.

Years	No. of births	Unadjusted Birth rate per 1,000 of the population	No. of deaths	Unadjusted Death rate per 1,000 of the population	Infantile Mortality rate per 1,000 births
1931 ..	553	12.5	690	15.5	37
1932 ..	513	11.0	781	16.8	39
1933 ..	514	10.6	715	14.7	38
1934 ..	615	11.9	756	14.6	20
1935 ..	621	11.5	744	14.0	40
1936 ..	687	12.4	870	15.6	35
1937 ..	729	12.4	916	15.6	45
1938 ..	712	10.8	917	15.5	29
1939 ..	763	12.4	1035	16.9	23
1940 ..	657	9.6	1165	17.6	49
1941 ..	590	10.1	1044	18.7	36
1942 ..	724	13.3	1116	20.5	35
1943 ..	775	14.3	1073	20.4	32
1944 ..	924	17.1	1037	19.2	44
1945 ..	811	13.8	1173	20.0	39
1946 ..	1059	16.3	1223	18.8	48
1947 ..	1003	15.0	1251	18.7	32
1948 ..	861	12.8	1103	16.3	24
1949 ..	818	12.0	1209	17.8	20
1950 ..	714	10.4	1336	19.5	31
1951 ..	699	10.3	1375	20.2	25

It will be noted from this table that the number of deaths has always exceeded the number of births during the last 21 years. There has been no "natural increase of the population" (*i.e.* excess of births over deaths) since the year 1921.

TABLE VI.
INFANTILE MORTALITY.

The number of deaths under one year of age was 17 (11 males and 6 females), giving an infant mortality rate of 25 per 1,000 live births. The corresponding rate for England and Wales for the year under review was 30.

Year	No. of Infant Deaths	Proportion per 1,000 live births	Percentage of Total Deaths at all ages	Infant Mortality Rate in England and Wales
1927	20	46	3.5	69
1928	17	37	3.1	65
1929	12	24	1.7	74
1930	18	36	2.8	60
1931	20	37	2.9	66
1932	20	39	2.5	65
1933	18	38	2.5	64
1934	12	20	1.6	59
1935	25	40	3.4	57
1936	23	35	2.6	59
1937	33	45	3.6	58
1938	20	29	2.2	53
1939	18	23	1.7	50
1940	32	49	2.7	55
1941	22	36	2.1	59
1942	25	35	2.2	49
1943	24	32	2.2	49
1944	40	44	3.8	46
1945	31	39	2.5	46
1946	50	48	4.2	43
1947	31	32	2.4	41
1948	20	24	1.8	34
1949	16	20	1.3	32
1950	22	31	1.6	30
1951	17	25	1.3	30

The causes of deaths of children under one year for the last 5 years are as follows:—

Cause of Infant Deaths	Deaths of infants under one year of age.				
	1947	1948	1949	1950	1951
Premature Births	8	7	4	8	4
Congenital Malformations ..	10	7	1	3	3
Pneumonia	4	5	1	3	4
Atelectasis	—	—	2	2	1
Asphyxia	—	—	3	—	2
Spina Bifida	—	—	—	—	—
Bronchitis	—	—	—	1	—
Gastro Enteritis	1	—	2	1	—
Tuberculosis	—	—	—	1	—
All other causes	8	1	3	3	3
TOTALS	31	20	16	22	17

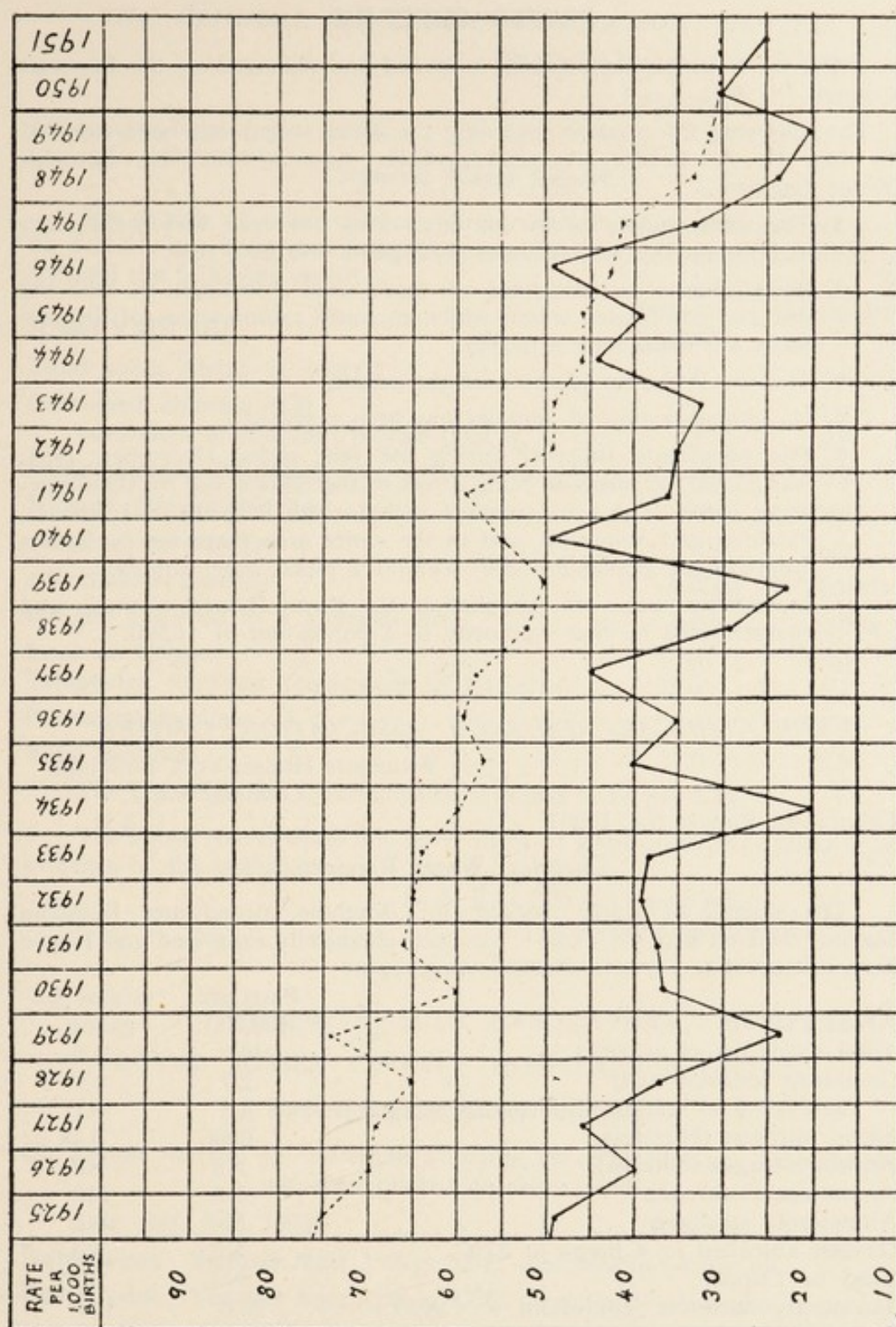
TABLE VII.

INFANTILE DEATHS 1951.

TABLE SHOWING CAUSES AND AGES AT DEATH.

Cause	Age in weeks				Total under 1 Month	Age in months					Total (All Ages)
	0-1	1-2	2-3	3-4		1-2	2-3	3-6	6-9	9-12	
Prematurity	4	—	—	—	4	—	—	—	—	—	4
Congenital Malformations ..	2	1	—	—	3	—	—	—	—	—	3
Pneumonia	—	—	—	—	—	1	—	1	1	1	4
Atelectasis	—	—	—	—	—	—	—	—	—	1	1
Asphyxia	—	—	—	—	—	—	1	1	—	—	2
Other Causes ..	3	—	—	—	3	—	—	—	—	—	3

CHART SHOWING WORTHING INFANTILE MORTALITY RATE SINCE 1925.



(Dotted line represents Rate for England and Wales)

WATER SUPPLIES.

The water supply undertaking is owned and managed by the Borough Council.

The following information regarding the water supply has been supplied by Mr. H. A. Leader, Assoc.M.Inst.C.E., Assoc.M.Inst.W.E., Borough Water Engineer.

1. The water supply of the statutory area has been very satisfactory in both quality and quantity throughout the past year.
2. Bacteriological examinations are made once a fortnight of both the raw and chlorinated water, whilst chemical examinations of the raw water are made once a month.
3. The water has no plumbo-solvent action.
4. No contamination of supplies has been reported.
5. The population supplied during the year ended December, 1951, was 73,500, all supplies being direct to the houses and no standpipes being used. The area supplied includes the Parishes of Clapham, Patching and Sompting, and in the entire area there are 61 houses (approximate population 200) without a piped water supply.

In addition water was supplied to the Rural District Council, and re-distributed by that Authority to a population of 11,590.

THE CLINICAL RESEARCH ASSOCIATION LIMITED.

Watergate House, York Buildings,
London, W.C.2.

Laboratory Report No. 14097.

17.8.51.

Chemical Water Report.

The sample of water marked 36" Borehole, Broadwater Pumping Station, received here on 15.8.51, has been chemically examined and I have been instructed to forward the following report:—

ANALYSIS (B)	Parts per 100,000	Grains per gallon
Total solids (dried at 180°C)	30.0	21.0
Combined chlorine (Cl)	2.7	1.9
equivalent to Sodium Chloride (NaCl)	4.5	3.1
Nitric nitrogen (Nitrates)	0.68	0.48
Nitrous nitrogen (Nitrites)	Nil	Nil
Ammoniacal nitrogen	Nil	Nil
Albuminoid nitrogen	Nil	Nil
Oxygen absorbed in 4 hours at 27°C.	Nil	Nil
Lead or Copper	Nil	Nil
Temporary hardness (equivalent to CaCO ₃)	20.0	14.0
Permanent hardness (" " ")	4.0	2.8
Total hardness (" " ")	24.0	16.8

The Hydrogen Ion Concentration is found to be pH 7.35.

The above results show this water to be of a high degree of organic purity and there is no evidence of pollution.

R. S. RALPH, M.R.C.S., D.P.H.,
Laboratory Director.

THE CLINICAL RESEARCH ASSOCIATION LIMITED.

Watergate House, York Buildings,

London, W.C.2.

Laboratory Report No. 15882.

9.11.51.

Chemical Water Report.

The sample of water marked 48" Borehole Patching P.S. received here on 6.11.51, has been chemically examined, and I have been instructed to forward the following report:—

ANALYSIS (B)	Parts per 100,000	Grains per gallon
Total solids (dried at 180°C)	34.0	23.8
Combined chlorine (Cl)	2.5	1.8
equivalent to Sodium Chloride (NaCl) ..	4.1	2.9
Nitric nitrogen (Nitrates)	0.60	0.42
Nitrous nitrogen (Nitrites)	Nil	Nil
Ammoniacal nitrogen	Nil	Nil
Albuminoid nitrogen	0.0004	0.0003
Oxygen absorbed in 4 hours at 27°C. ..	0.005	0.004
Lead or Copper	Nil	Nil
Temporary hardness (equivalent to CaCO ₃) ..	22.0	15.4
Permanent hardness (" " ") ..	5.0	3.5
Total hardness (" " ") ..	27.0	18.9

The Hydrogen Ion Concentration is found to be pH 7.15.

The above results show this water to be of good quality and there is no evidence of any pollution.

R. S. RALPH, M.R.C.S., D.P.H.,
Laboratory Director.

PUBLIC HEALTH LABORATORY,

ROYAL SUSSEX COUNTY HOSPITAL, BRIGHTON.

Bacteriological Water Analysis.

On Sample marked 48" Borehole, Patching Pumping Station. (Sample has not been filtered or chlorinated).

Lab. Ref. No. 35074.

Received 17.7.51.

Plate Count. Yeastrel Agar 3 days 22°C. Aerobically—4 per ml.

Plate Count. Yeastrel Agar 2 days 37°C. Aerobically—less than 1 per ml.

Probable number of coliform bacilli, MacConkey 2 days, 37°C.—less than 1 per 100 ml.

Date of report, 20.7.51.

J. E. JAMESON,
Director.

PUBLIC HEALTH LABORATORY,
ROYAL SUSSEX COUNTY HOSPITAL, BRIGHTON

Bacteriological Water Analysis.

On sample from tap at private house, West Worthing.

Lab. Ref. No. 23028.

Received 27.2.51.

Plate Count. Yeastrel Agar 3 days 22°C. Aerobically—less than 1 per ml.

Plate Count. Yeastrel Agar 2 days 37°C. Aerobically—less than 1 per ml.

Probable number of coliform bacilli, MacConkey 2 days, 37°C.—less than
1 per 100 ml.

Date of report, 2.3.51.

J. E. JAMESON,
Director.

SWIMMING BATHS.

These were regularly inspected by the Medical Officer of Health and the Sanitary Inspectors. Frequent examinations of the water were carried out and the results showed that a satisfactory standard of purity was maintained.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES.

Notifiable Infectious Diseases.

The following are the infectious diseases which are now notifiable to the Medical Officer of Health:—

Scarlet fever
Whooping cough
Diphtheria
Measles
Acute pneumonia (primary or influenzal)
Meningococcal infection
Acute poliomyelitis—
 paralytic
 non-paralytic
Acute encephalitis—
 infective
 post-infectious
Dysentery
Ophthalmia neonatorum
Puerperal pyrexia
Smallpox
Typhoid and Para-typhoid fevers
Food poisoning
Erysipelas
Malaria
Cholera
Plague
Typhus fever
Relapsing fever
Tuberculosis (all forms).

NOTIFICATIONS.

The following table shows the infectious disease notifications received during the year together with any corrections that may have been made subsequently either by the patient's doctor or the Medical Superintendent of the Infectious Disease Hospital:—

	Scarlet Fever		Whooping Cough		Ac. Poliomyelitis		Measles	
	M	F	M	F	M	F	M	F
Numbers originally notified	18	15	126	123	1	—	452	469
Final numbers after correction:								
Under 1 year	—	—	4	7	—	—	5	9
1-2 years	2	—	23	36	—	—	63	76
3-4 „	6	4	55	33	—	—	134	127
5-9 „	6	8	43	35	1	—	240	219
10-14 „	—	1	—	4	—	—	8	20
15-24 „	3	1	—	2	—	—	1	7
25 and over	1	1	1	6	—	—	1	11
TOTAL	18	15	126	123	1	—	452	469
Cases removed to Hospital	13	11	—	3	1	—	5	9

	Ac. Pneumonia		Typhoid Fever		Erysipelas		Dysentery	
	M	F	M	F	M	F	M	F
Numbers originally notified	7	13	—	3	1	8	6	3
Final numbers after correction:								
Under 5 years	2	—	—	—	—	—	1	—
5-14 years	1	4	—	1	—	—	2	1
15-44 „	—	—	—	2	—	—	1	—
45-64 „	1	1	—	—	—	3	1	—
65 and over	3	8	—	—	1	4	1	—
Age unknown	—	—	—	—	—	—	—	2
TOTAL	7	13	—	3	1	7	6	3
Cases removed to Hospital	2	1	—	3	1	2	1	—

Puerperal Pyrexia: Originally notified 17. Final number after correction 17.

Ophthalmia Neonatorum: Originally notified 1. Final number after correction 1.

ACUTE POLIOMYELITIS (Infantile Paralysis).

There was one confirmed case during the year compared with eleven in 1950 and seven in 1949. The patient, a child aged 5½ years, was a paralytic case and made a complete recovery.

DIPHTHERIA

No cases were notified during the year. The incidence of this disease is shown below:—

Year	No. of cases	Deaths
1922	29	—
1923	16	1
1924	7	—
1925	9	1
1926	22	2
1927	83	4
1928	54	2
1929	20	1
1930	12	3
1931	31	2
1932	36	4
1933	33	1
1934	31	—
1935	16	—
1936	20	—
1937	18	—
1938	23	1
1939	24	1
1940	3	—
1941	5	1
1942	—	—
1943	7	1
1944	3	2
1945	—	—
1946	3	1
1947	1	—
1948	—	—
1949	—	—
1950	—	—
1951	—	—

These figures reveal the success of the Diphtheria Immunisation scheme, which was commenced in Worthing in the autumn of 1939.

DIPHTHERIA IMMUNISATION AND VACCINATION AGAINST SMALL-POX.

1. Vaccination.

Vaccinations are carried out by Practitioners as a part of the General Medical Service, and a fee is payable by the County Council for the Record of the vaccination which the Practitioner supplies in each case.

The following table gives details of the vaccinations carried out during the year:—

Number of Persons Vaccinated (or re-vaccinated).

Age at date of vaccination	Under 1	1	2 to 4	5 to 14	15 or over	Total
Number vaccinated ...	293	98	174	897	1302	2764
Number re-vaccinated ...	—	—	51	649	3406	4106

Number of cases specially reported (age groups as above)

(a) Generalised Vaccinia ...	—	—	—	—	—	—
(b) Post-vaccinal Encephalomyelitis ...	—	—	1	—	—	1
(c) Death from complica- tions of vaccination other than (a) and (b) ...	—	—	—	—	—	—

The large number of vaccinations and re-vaccinations in the older age-groups were carried out at the beginning of the year during the Brighton small-pox outbreak. The modern method of controlling small-pox is by isolating and supervising the close contacts of cases rather than by vaccinating large numbers of persons who have never been case contacts. Only if this method breaks down and cases of unknown origin appear is a policy of mass vaccination on what is known as the "expanding ring principle" adopted. This position did not arise anywhere during the Brighton outbreak. However, as a result of the public clamour that occurred, the general immunity has been raised at least for a time and in addition the dangerously low state of vaccination in the infant population has been improved and emphasis has been given to the remarks I made on this subject in my Annual Report for 1949.

Diphtheria Immunisation.

During the year 457 children received complete treatment as compared with 467 in the previous year. 255 children were immunised at the Clinics and 202 by medical practitioners, who submitted a record of the immunisation for which the County Council paid a fee.

TABLE A.

The following Table gives details of the treatment undertaken during the year:—

Number of children who completed a full course of primary immunisation			Number of children receiving a reinforcing injection
Age at date of Final Injection		Total	398
Under 5	5-14	457	
439	18		

TABLE B.

Immunisation in Relation to Child Population.

Age at 31.12.51 i.e. born in year	Under 1 1951	1 1950	2 1949	3 1948	4 1947	5 to 9 1942-46	10 to 14 1937-41	Total under 15	Percentage Immunised
Number immunised	35	340	458	523	648	2421	2159	6584	58.0
Estimated mid-year population 1951	Children under five					Children 5-14			
	3976					7369		11345	

Diphtheria immunisation is carried out at the following clinics:—

Central Clinic		Tuesday at 2.30 p.m.
Durrington Clinic		Monday at 2.30 p.m. at monthly intervals.
Goring Clinic		As required.
Findon Valley Clinic		As required.

SCARLET FEVER.

The number of confirmed cases was 33, of which 24 were treated in hospital. There were no deaths, and in all cases admitted to hospital modern treatment modified the severity of the disease, shortened its duration, and completely eliminated any complications.

MEASLES.

Measles tends to reach epidemic proportions every two years, and in the spring of 1951 there were 921 cases notified. Fourteen cases, most of which were complicated by broncho-pneumonia, were admitted to hospital and all made a good recovery. One case treated at home died, broncho-pneumonia being the cause of death.

ADMISSION OF CASES TO INFECTIOUS DISEASE HOSPITALS.

The following Worthing cases were admitted during the year:—

Swandean Infectious Disease Hospital.

Scarlet fever	24
Streptococcal sore throat	3
Measles	10
Measles and broncho-pneumonia	4
Chicken pox	2
Mumps	2
Whooping cough	1
Whooping cough and broncho-pneumonia ..	2
Erysipelas	2
Acute poliomyelitis	1
Typhoid fever	3
Typhoid fever carrier	2
Broncho-pneumonia	1
Dysentery	1
Observation cases	7
	—
	65
	—

TUBERCULOSIS.

72 new cases were added to the Register during 1951:—

Pulmonary—Males ..	31	Non-pulmonary—Males ..	4
Females ..	32	Females ..	5
	—		—
	63		9
	—		—

49 cases were removed from the Register during the year, and 1 old case was restored.

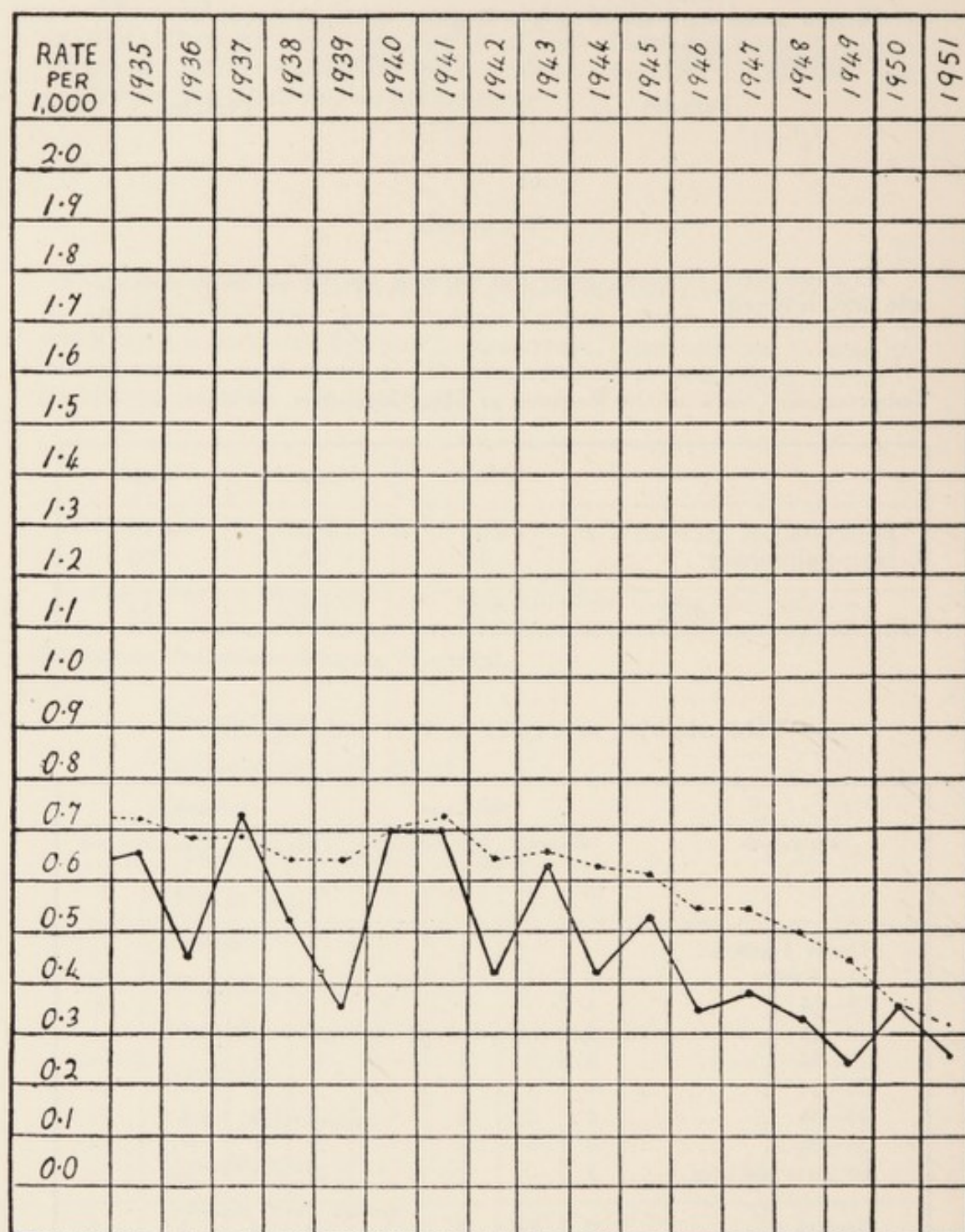
Tuberculosis Cases on the Register at 31st December, 1951:—

	Males	Females	Total
Pulmonary	210	209	419
Non-pulmonary ..	44	62	106
Totals	254	271	525

Table showing new cases in 1951 and mortality.

Age periods	New cases				Deaths			
	Pulmonary		Non-pulmonary		Pulmonary		Non-pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	—	—	1	—	—	—	—	—
1—4 years	—	1	—	—	—	—	—	—
5—14 „	4	—	—	3	—	—	—	1
15—24 „	4	14	—	—	—	—	—	—
25—34 „	8	7	1	—	1	1	—	—
35—44 „	4	5	—	—	—	2	—	—
45—54 „	4	2	2	—	2	2	1	—
55—64 „	4	1	—	—	2	1	—	—
65 years and over ..	3	2	—	2	2	3	—	—
TOTALS	31	32	4	5	7	9	1	1

CHART SHOWING WORTHING TUBERCULOSIS DEATH RATE SINCE 1935.



(Dotted line represents Rate for England and Wales).

The following table shows the mortality from tuberculosis (all forms) since 1935:—

Year	Deaths	Death Rate per 1,000 of the population	
		Worthing	England and Wales
1935	36	0.67	0.72
1936	25	0.45	0.69
1937	42	0.72	0.70
1938	31	0.52	0.64
1939	26	0.34	0.64
1940	48	0.70	0.70
1941	39	0.70	0.73
1942	23	0.42	0.66
1943	33	0.63	0.67
1944	23	0.42	0.63
1945	32	0.54	0.62
1946	22	0.34	0.55
1947	26	0.38	0.55
1948	23	0.34	0.51
1949	18	0.26	0.45
1950	25	0.37	0.36
1951	18	0.26	0.31

It has not been necessary to take action under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

FOOD POISONING.

No cases of food poisoning were notified during the year.

CLEAN FOOD CAMPAIGNS.

Lectures and discussions have been given by the Medical Officer and the Chief Sanitary Inspector to a number of local organisations. Food traders' organisations have been approached and lectures given to food handlers.

FOOD HYGIENE — BYELAW.

A Byelaw was made under Section 15 of the Food and Drugs Act, 1938, for the purpose of forbidding the sale of unsound meat in the same room as food for human consumption is handled. This Byelaw became operative on February 23rd, 1952.

THE NATIONAL ASSISTANCE ACT, 1948.

Section 47. Removal to suitable premises of persons in need of care and attention.

No legal proceedings were necessary during the year. In the few cases where difficulties occurred, informal action was sufficient to cope with the situation.

Section 50. Burial of the Dead.

Under this Section of the Act it was necessary to arrange for the burial of eight persons where no suitable arrangements were being made.

CLEANSING OF PERSONS.

Total attendances at Clinic	..	..	9
No. of heads cleansed	..	..	—
No. of individual cases of Scabies treated during the year	..	..	3

STAFF MEDICAL EXAMINATIONS.

Medical examinations are undertaken by the Department in connection with new appointments. During the year 62 such examinations were carried out, details of which are as follows:—

<i>Department</i>	<i>Males</i>	<i>Females</i>
Town Clerk's	—	4
Borough Engineer's	10	—
Medical Officer's	5	4
Borough Treasurer's	1	5
Education	4	17
Entertainments and Publicity	1	2
Borough Librarian's	2	7
Total	23	39

Occasionally similar examinations are carried out at the request of other Local Authorities and during 1951 eight such examinations were undertaken.

SANITARY INSPECTION OF THE AREA.

This is under the supervision of the Chief Sanitary Inspector, who has supplied me with the following report:—

GENERAL INSPECTIONS.

General inspections included the following :—

Houses	..	..	..	..	..	337
Factories	..	..	..	..	..	464
Bakehouses	..	..	..	..	..	78
Restaurant Kitchens	..	..	..	..	..	253
Workplaces	..	..	..	..	..	64
Dairies	..	..	..	..	..	70
Ice Cream Premises	..	..	..	..	..	330
Food Shops	..	..	..	..	..	1,887
Schools	..	..	..	..	..	42
Drainage	..	..	..	..	..	675
Shop's Act	..	..	..	..	..	117
Revisits and miscellaneous	..	..	..	..	..	3,980

688 Public health nuisances or contraventions were recorded and 500 were remedied before the end of the year.

SANITARY DEFECTS AND NUISANCES RECORDED INCLUDED THE FOLLOWING :—

Houses :

Roofs defective	..	..	..	..	..	23
Rainwater conductors defective	..	..	..	..	..	35
Chimney stacks and external walls defective	..	..	..	..	..	14
Verminous	..	..	..	..	..	17
Re-decorations requested	..	..	..	..	..	12
Wall plaster defective	..	..	..	..	..	20
Wall dampness	..	..	..	..	..	33
Cooking ranges, fireplaces defective	..	..	..	..	..	5
Window frames or cords defective	..	..	..	..	..	29
Floors, staircases defective	..	..	..	..	..	17

Drainage :

Requiring reconstruction	..	..	..	..	..	7
Defective condition	..	..	..	..	..	21
Choked	..	..	..	..	..	59
W.C.'s defective	..	..	..	..	..	24
Insanitary yards	..	..	..	..	..	15
Offensive accumulations	..	..	..	..	..	3
Vacant land insanitary	..	..	..	..	..	15
Animals improperly kept	..	..	..	..	..	3
Dilapidated refuse bins	..	..	..	..	..	442
Smoke nuisances	..	..	..	..	..	5

COMPLAINTS.

1,014 complaints were investigated and appropriate action was taken. They are classified as follows:—

General housing defects	..	..	..	..	98
Dampness	..	..	..	..	73
Overcrowding	..	..	..	..	23
Vermin, insects	..	..	..	..	64
Drainage defects	..	..	..	..	93
Insanitary land, yards	..	..	..	..	49
Animals improperly kept	..	..	..	..	18
Offensive smells	..	..	..	..	48
Smoke nuisances	..	..	..	..	16
Refuse bins defective	..	..	..	..	10
Rats	..	..	..	..	396
Mice	..	..	..	..	82
Miscellaneous	..	..	..	..	44

In numerous cases it was found that the grounds for complaint were trivial or that the nature of the complaint did not constitute a nuisance within the meaning of the Public Health Act, *e.g.* untidy vacant plots of land, etc.

HOUSING.

Shortage of new houses continues to be very acute, and repairs to existing houses increasingly difficult on account of high costs and low rents.

As in previous years, it was not practicable to operate in general the provisions of the Housing Act in relation to repair, closure or demolition of unfit houses. A lower standard had to be accepted. Unfortunately, numerous sub-standard dwellings continue to deteriorate year by year.

PUBLIC HEALTH ACT, 1936.

Section 269. Caravans.

Eleven licences and three licence renewals to permit the occupation of caravans as temporary dwellings were issued. Two applications were refused.

There is no licensed camping site within the Borough.

RODENT CONTROL.

No. of complaints received	..	..	..	..	478
No. of visits by Rodent Operators	..	..	..	..	3,133
No. of premises cleared	..	..	..	..	282
Estimated No. of rats destroyed (excluding gassing)	..	..	..	..	2,656

No infestation of premises was recorded at 143 premises, the subject of complaint.

Nine major infestations were found and cleared.

No charge is made for the service of a rodent operator at private houses.

The keeping of poultry in back gardens has greatly increased the rat menace.

SEWER RATS.—Two treatments of the sewers were carried out. 165 chambers were found to be rat infested during the Spring treatment and 122 during the Autumn treatment.

Nine of the sixteen areas into which the Borough is divided are now free from rats. Fifteen were infested when this work was first commenced in 1944.

FACTORIES ACTS, 1937 and 1948.

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

Premises	Number on Register	Number of Inspections	Written Notices
(i) Factories in which Sections 1, 2, 3, 4, and 6 are to be enforced by Local Authorities	48	69	3
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	267	301	22
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises).	6	12	2
TOTAL	321	582	27

2. Cases in which DEFECTS were found.

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred	
			To H.M. Inspector	By H.M. Inspector
Want of cleanliness (S.1.)	5	4	—	1
Overcrowding (S.2)	2	2	—	—
Unreasonable temperature (S.3)	—	—	—	—
Inadequate ventilation (S.4)	—	—	—	—
Ineffective drainage of floors (S.6)	—	—	—	1
Sanitary Conveniences (S.7)				
(a) insufficient	4	4	—	1
(b) unsuitable or defective	36	34	—	4
(c) not separate for sexes	—	—	—	—
Other offences against the Act (not including offences relating to Outwork)	5	5	—	4
TOTAL	52	49	—	9

FIRE ESCAPE. One Certificate of Adequate Means of Escape in Case of Fire was granted.

RAG FLOCK AND OTHER FILLING MATERIALS ACT, 1951.

Six premises were registered, and one licensed, pursuant to the requirements of the above Act.

Six samples of rag flock or other fillings were taken and analysed pursuant to the Act and Regulations.

One sample of half-down contained excessive impurities and appropriate action was taken.

OFFENSIVE TRADES.

The only offensive trades in the Borough relate to two firms registered to deal in rags, bones and skins.

NOTIFIABLE DISEASES.

900 visits were made in connection with enquiries relating to infectious disease or suspected infectious disease.

DISINFECTION AND DISINFESTATION.

539 articles fumigated by steam disinfection included the following:—					
Blankets and Rugs	..	..	..	..	80
Sheets, Eiderdowns, etc.	..	..	..	..	39
Mattresses and Feather Beds	..	..	..	..	153
Pillows, bolsters, cushions	..	..	..	..	194
Miscellaneous articles	..	..	..	..	73
Number of rooms disinfected	..	..	..	..	68
Number of rooms disinfested	..	..	..	..	172
Revenue received:—					
for disinfection	..	..	..	..	£26 8s. 10d.
for disinfestation	..	..	..	..	£81 11s. 2d.

NOTICES SERVED TO REMEDY DEFECTS OR ABATE NUISANCES OR CONTRAVENTIONS.

	<i>Act</i>	<i>Informal</i>	<i>Statutory</i>
Public Health Act, 1936.			
Section 92 (defects and nuisances)	..	73	3
„ 39 (drainage and appliances)	..	68	1
„ 44-45-46 (water closets)	..	11	
„ 101 (smoke)	..	5	
(miscellaneous)	..	4	
Worthing Corporation Act (refuse bins)	..	42	9
Worthing Corporation Act (watercourses)	..	5	
Housing Acts	..	85	5
Food and Drugs Act, 1938-1950			
Section 13 (food preparing)	..	39	
Food Hygiene Byelaws	..	14	
Milk and Dairies Regulations	..	7	
Prevention of Damage by Pests Act 1949	..	13	
Factories Act, 1937-1950	..	23	
Shops Act, 1950. Sec. 38.	..	2	

Sewers maintainable by the Corporation at the owner's expense serving 114 houses found to be choked or defective were cleansed or repaired by the Corporation and the cost incurred recovered in accordance with requirements of the Public Health Act, 1936.

One drainage certificate was issued after examining and testing the drainage system and sanitary fittings on payment of the prescribed fee.

Forty-two houses were redrained to a main sewer and cesspools abolished.

One pail convenience was converted to the water carriage system.

MEAT AND FOOD EXAMINATION.

Slaughtering is carried on at one Regional Slaughterhouse.

9 persons were licensed to slaughter animals under the Slaughter of Animals Act, 1933.

All animals were slaughtered with the aid of mechanically operated humane instruments.

The carcase of every animal slaughtered was examined; this entailed a vast amount of late night and Sunday work. 546 attendances were made at the slaughterhouse.

15,333 animals, *i.e.* 4,829 beasts, 2,233 calves, 6,712 sheep and 1,559 pigs were slaughtered and examined.

Approximately 27 tons of meat were found to be diseased and unfit for food. This was salvaged for animal feeding, fat rendering or fertilizers.

Meat found to be diseased included:—

Entire Carcases:

Beasts	..	..	..	..	..	..	29
Calves	..	..	..	..	..	..	9
Sheep	..	..	..	..	..	..	11
Pigs	..	..	..	..	..	..	13

Offals:

		<i>Beasts</i>	<i>Calves</i>	<i>Sheep</i>	<i>Pigs</i>
Heads and Tongues	..	283	3	—	22
Livers	..	1,014	6	441	39

Carcases Inspected and Condemned.

	Cattle excl. Cows	Cows	Calves	Sheep and Lambs	Pigs
Number killed	3,848	981	2,233	6,712	1,559
Number inspected	3,848	981	2,233	6,712	1,559
All diseases except Tuberculosis					
Whole carcases condemned	2	3	9	11	9
Carcases of which some part or organ was condemned	942	390	7	507	61
Percentage of the number inspected affected with disease other than tuberculosis	24.5	40.0	0.7	7.7	4.5
Tuberculosis only.					
Whole carcases condemned	9	15	—	—	4
Carcases of which some part or organ was condemned	311	228	5	—	33
Percentage of the number inspected affected with tuberculosis	8.3	24.8	0.2	—	2.4

Requests from local food tradesmen to examine foodstuffs of a doubtful character are received almost daily.

The undermentioned were found to be diseased or unsound and were condemned as being unfit for human food.

Tinned and other foods—1951.

	<i>No. of tins, etc.</i>		<i>lbs.</i>
Milk	645		
Vegetables	466		
Jam	185		
Fruit	827		
Soup	98		
Tomatoes	52		
Tinned Fish	210		
Fish Cakes	65		
Tinned Ham	323	3,853	
Tinned Meat	277		
Condiments	18		
Pickles	4		
Cereals	240		167
Cake			307
Mincemeat	2		
Wet Fish		1,428	
Ice Cream	120		
Chocolate Spread	4		
Dried Fruit			31
Sweets			82
Dates	1		
Eggs	382		
Christmas Puddings	34		
Coffee	6		
Tea			2
Sugar			33
Beverages	20		

Poultry, Game, etc.:

				No. of tins, etc.	lbs.
Poultry	..	..	..	21	173
Rabbits	..	..	..	52	
Sausages	..	..	..		45
Cooked Meats	..	..	..		10
Corned Beef	..	..	..		38
Fats:					
Cheese	..	..	..	37	135
Bacon	..	..	..		21
Butter	..	..	..		62
Home Killed Meat:					
Beef	..	..	..		241
Mutton	..	..	..		7
Pork	..	..	..		72
Veal	..	..	..		9
Offals	..	..	..		59

85 premises are registered for the manufacture of sausages or potted, pressed, pickled or preserved food for sale.

MILK.

278 samples were taken and the following is a synopsis of the results

Examination for Bacterial Cleanliness.

Designation	No. taken	Unsatisfactory
Tuberculin Tested	70	6
Tuberculin Tested (Pasteurised)	18	—
Pasteurised	115	3

The cleanliness of milk sold in the Borough was very good.

All this Tuberculin Tested milk was produced outside the Borough.

Two samples of cream were analysed, the fat content was satisfactory but the cleanliness was sub-standard.

Examination for Tubercle Bacilli. 11 samples were examined for the presence of tubercle bacilli and all proved to be negative.

Examination to detect Adulteration or Abstraction. 64 samples were analysed, details of which are given in the Foods and Drugs section on page 40.

Graded Milk. The following licences were granted under the appropriate Regulations:—

To retail Tuberculin Tested or Tuberculin Tested Pasteurised Milk	20
To Pasteurise	6
To retail Pasteurised Milk	20
To retail Sterilized Milk	12
Supplementary, Sterilized Milk	1

Milk Consumption. The average amount of milk consumed by the resident population was approximately 7,280 gallons daily, or 0.8 pint per head per day. The amount of Tuberculin Tested milk consumed daily was approximately 255 gallons.

99% of the milk (excluding T.T.) consumed in the Borough had been subjected to pasteurisation.

Milk in Schools. The number of $\frac{1}{2}$ -pints supplied to schools on each school day was approximately 7,500.

ICE CREAM.

Many manufacturers have ceased to make ice cream in this Borough and the number who manufacture regularly has become reduced to three.

189 premises are registered for the storage and sale of ice cream.

39 samples were taken and analysed for bacterial cleanliness with the following results:—

Grade I	..	..	..	61.5%
Grade II	..	..	..	18.0%
*Grade III	..	..	..	7.5%
*Grade IV	..	..	..	13.0%

* Unsatisfactory.

The general standard of cleanliness of ice cream continues to improve.

The requirements of the Heat Treatment Regulations are rigidly enforced.

4 samples were analysed as regards fat content and were found to be of good quality.

FOOD AND DRUGS ACT, 1938—SECTION 3.

DEFENCE (SALE OF FOOD) REGULATIONS, 1943.

104 samples of food were submitted for analysis by the Public Analyst:—

<i>Description</i>	<i>No. Analysed</i>	<i>Not Satisfactory</i>
Milk	51	7 (a)
„ Channel Island	12	
„ Sterilized	1	
„ Yoghourt	1	
Cream	2	
Baking Powder	3	
Sausages or Sausage Meat	11	8 (b)
Fish Paste	2	
Malt Vinegar	1	
Coffee	3	
Pickles	1	
Chocolate Spread	2	
Ice Cream	5	
White Pepper	2	
Ground Ginger	1	
Ground Almonds	3	
Jam Tarts	1	
Salad Cream	2	

(a) Five samples were deficient in fat in varying amounts from 6% to 20%, and two in solids not fat 2.3% and 2.4% respectively. Adulteration was not suspected.

(b) Six were sub-standard as regards meat content, and the presence of a preservative was not disclosed in three instances.

ANNUAL REPORT
of the
Meteorological Observations
for 1951.

METEOROLOGICAL OBSERVATIONS.

FOR THE YEAR 1951.

The Meteorological Station is in Beach House Park, which is 25.00 feet above Ordnance Datum. Here all the instruments, except the Fortin Standard Barometer and the Sunshine Recorder, are kept.

The shade thermometers, in a Stevenson screen, are:—self-recording maximum, self-recording minimum, dry bulb and wet bulb.

All thermometers are Fahrenheit and are verified at the National Physical Laboratory, Kew.

A self-recording minimum thermometer is used for registering the temperature on the grass.

Four earth thermometers are in use at various depths—1ft., 2ft., 4ft. and 6ft.

There is an official five-inch copper Rain Gauge Meteorological Office pattern, also a Dines Tilting Siphon Automatic Rain Recorder.

The Campbell-Stokes Sunshine Recorder is fixed on a platform at the top of Christ Church Tower, 111 feet above mean sea level and 84 feet above ground level.

All instruments at the local Meteorological Observatory are examined and tested annually by Officers of the Meteorological Office, Air Ministry, London.

A code report is sent by telegram each evening to the Meteorological Office, London, and the leading Newspapers are supplied with reports from that Office.

Weekly reports are sent to the local newspapers, and a full report monthly to the Meteorological Office, London, for publication in their journals. Rainfall statistics are supplied to the British Rainfall Organization.

The daily weather report of the Air Ministry, the previous day's sunshine card and a collection of charts and records are also exhibited in the windows of the information bureau at the Pier.

This report contains statistics showing the means for the year of Barometric pressure, Air and Earth temperatures, Sunshine, Wind and Humidity, compared with the averages for a series of years.

The 35 years average period (1881-1915), used by the Meteorological Office, is known as the Normal.

Observations are taken every day throughout the year at 9 a.m. and 6 p.m.

ABSTRACT OF OBSERVATIONS FOR THE YEAR, 1951.

Total amount of bright sunshine: 1838.4 hours.
Number of days with sunshine: 297.
Rainfall: 37.98 inches.
Number of rain-days (.01 inch or more): 184.
Number of wet days (0.04 inch, or more): 146.
Highest barometric reading: 30.608 inches on November 27th.
Lowest reading: 28.758 inches on February 5th.
Highest recorded temperature in screen: 76° on July 30th.
Lowest recorded temperature in screen: 22° on January 30th.
Mean temperature: 51.2°.
Mean relative humidity: at 9 a.m. 84.0%.
Lowest temperature on the grass: 18° on January 30th.
Wettest day: June 11th, 1.40 inches.
Sunniest day: June 19th, 15.1 hours.
Number of days snow or sleet fell: 7.
Number of days hail fell: 13.
Number of days thunder heard: 13.
Number of ground frosts: 44.
Number of days with wind at gale force: 5.
Number of days with fog (9 a.m.): 1.

BRIGHT SUNSHINE.

The duration of bright sunshine for the year was 1,838.4 hours.

This amount is 41.1 per cent. of the time during which the sun was above the horizon, giving a daily mean of 5.03 hours. The average yearly sunshine for the previous ten years was 1,845.6 hours. During this period the year with the highest record was 1949, when 2,128.9 hours were recorded, whilst the year 1942 was the lowest with 1,711.6 hours. The sunniest day was June 19th when 15.1 hours were recorded.

June, with 294.0 hours, was the sunniest month, and December with 64.8 hours, was the least sunny.

A sunless day is one on which less than 6 minutes of bright sunshine are recorded.

RAINFALL.

The rainfall for the year 1951 was 37.98 inches. This amount is 10.55 inches above the Normal and 12.93 inches above the previous ten years average.

The month of October was the driest with 1.37 inches, falling below the Normal amount by 2.25 inches. February was the wettest month, with 5.49 inches, this amount being 3.52 inches above the Normal. The heaviest day's rainfall was 1.40 inches on June 11th. There was 184 days on which 0.01 inch or more rain fell, compared with 143 days which is the average number for the previous ten years.

One inch of rainfall is equivalent to 100.925 tons per acre or 14.4686 millions of gallons per square mile.

WINTER RAINFALL. Total for six months (January to March and October to December) was 20.98 inches, compared with an average winter rainfall for the previous 10 years of 14.32 inches.

SUMMER RAINFALL. Total for six months (April 1st to September 30th) was 17.00 inches, compared with an average summer rainfall for the previous ten years of 10.73 inches.

HUMIDITY.

The mean barometric reading for the year was 29.907 inches (when of the air) at 9 a.m. was 84% compared with the previous five years' average of 82%.

BAROMETER.

The mean barometric reading for the year was 29.907 inches (when reduced to sea level and to a temperature of 32° Fahr.) the average for the previous ten years being 29.963 inches. The highest reading for the year was 30.608 inches on November 27th, and the lowest reading was 28.758 inches on February 5th. The absolute range for the year was 1.850 inches and the average range for the previous ten years 1.597 inches.

One inch barometric pressure is equivalent to 70.727 lbs. per square foot.

TEMPERATURE.

The mean temperature for the year was 51.2° Fahr., which is 0.5° above the Normal. Since 1881 the warmest year was 1949 with a mean temperature of 52.8°. The highest shade temperature for 1951 was 76° recorded on July 30th and the lowest 22° on January 30th. The extreme range of temperature was 54° compared with the average range of 60.1° for the previous ten years. The temperature on the grass fell below 30.4° on 44 nights. The lowest temperature on the grass was 18° during the night of January 30th.

EARTH TEMPERATURES. The highest and lowest temperatures at various depths in the earth were as follows:—

<i>Below</i>				
<i>Surface</i>	<i>Highest</i>	<i>Date</i>	<i>Lowest</i>	<i>Date</i>
1 ft.	66.1°	July 21st	35.8°	January 30th
4 ft.	61.5°	Aug. 7th, 8th, 9th	41.8°	December 3rd

WIND.

Percentages of direction of wind from 730 observations taken at 9 a.m. and 6 p.m. throughout the year:—

	9 a.m.	6 p.m.		9 a.m.	6 p.m.
	%	%		%	%
N.	6.0	5.7	S.	10.4	6.6
N.E.	13.4	11.3	S.W.	26.6	28.6
E.	3.0	4.4	W.	12.6	18.6
S.E.	10.4	10.4	N.W.	12.9	13.2
Calm	4.7	1.2			

TABLE 1—CLOUD AND HUMIDITY.

Month.			Cloud Amount Scale 1-8		Mean Relative Humidity	Mean Humidity previous 5 years 1946-1950
			9 a.m.	6 p.m.	9 a.m.	9 a.m.
January	..	..	5	5	% 91	% 89
February	..	..	6	5	93	86
March	..	..	5	5	85	81
April	..	..	4	4	73	77
May	..	..	4	5	78	78
June	..	..	3	3	76	77
July	..	..	4	4	80	76
August	..	..	6	4	81	78
September	..	..	5	6	85	82
October	..	..	4	3	86	82
November	..	..	5	5	88	87
December	..	..	6	6	89	87
Year 1951	..		5	5	84	Yearly average 82

TABLE 2—BRIGHT SUNSHINE ((Mainland Stations).

(Extract from Table of Official Returns of the Meteorological Office, Air Ministry).

<i>Station</i>					<i>Hours Year 1951</i>
Falmouth	..	..	..	..	1886.0
Chichester (Birdham)	..	..	..	..	1871.5
WORTHING	..	..	..	..	1838.4
Eastbourne	..	..	..	..	1836.4
Weymouth	..	..	..	..	1830.6
Littlehampton	..	..	..	..	1819.2
Bognor Regis	..	..	..	..	1817.3
Portsmouth	..	..	..	..	1816.2
Seaford	..	..	..	..	1811.0
Teignmouth	..	..	..	..	1808.3
Penzance	..	..	..	..	1805.5
Herstmonceux	..	..	..	..	1801.4
Torquay	..	..	..	..	1794.9
Swanage	..	..	..	..	1785.9
Paignton	..	..	..	..	1779.5
Hastings	..	..	..	..	1775.9
Gulval	..	..	..	..	1775.5
Polegate	..	..	..	..	1774.8
Brighton	..	..	..	..	1773.6
Calshot	..	..	..	..	1765.8
Burlingham	..	..	..	..	1760.8
Bexhill	..	..	..	..	1750.7
Exmouth	..	..	..	..	1749.3
Lowestoft	..	..	..	..	1746.5
Chivenor	..	..	..	..	1743.4
Clacton-on-Sea	..	..	..	..	1741.4
Margate	..	..	..	..	1735.7
Folkestone	..	..	..	..	1734.2
Bournemouth	..	..	..	..	1730.6
Dawlish	..	..	..	..	1728.3
Herne Bay	..	..	..	..	1727.7
Lympne	..	..	..	..	1720.5
Hartland Point	..	..	..	..	1719.3
Felixstowe	..	..	..	..	1715.5
Plymouth (Mt. Batten)	..	..	..	..	1715.3
Poole	..	..	..	..	1715.1
St. Eval	..	..	..	..	1712.5
Southend	..	..	..	..	1711.1
Dover	..	..	..	..	1708.2
Whitstable	..	..	..	..	1703.9
Newquay	..	..	..	..	1701.7
West Raynham	..	..	..	..	1700.5
Maldon	..	..	..	..	1699.4
Ellbridge	..	..	..	..	1698.5
Tangmere	..	..	..	..	1696.6
Rye	..	..	..	..	1692.5
Plymouth Hoe	..	..	..	..	1691.9
Southampton	..	..	..	..	1687.8
Dovercourt	..	..	..	..	1685.5
Throwley	..	..	..	..	1678.2

TABLE 3—BRIGHT SUNSHINE.

30 years averages of bright sunshine for Great Britain extracted from Air Ministry official publications.

1901—1930

<i>Town</i>					<i>Hours of Sunshine</i>
WORTHING	..	..	..	..	1834
Bognor Regis	..	..	..	..	1827
EASTBOURNE	..	..	..	..	1826
Sandown	..	..	..	..	1814
HASTINGS	..	..	..	..	1801
Southsea	..	..	..	..	1801
Littlehampton	..	..	..	..	1800

1906—1935

<i>Town</i>					<i>Hours of Sunshine</i>
WORTHING	..	..	..	..	1834
EASTBOURNE	..	..	..	..	1833
BOGNOR REGIS	..	..	..	..	1822
SANDOWN	..	..	..	..	1814
HASTINGS	..	..	..	..	1797
VENTNOR	..	..	..	..	1792
Littlehampton	..	..	..	..	1791

NOTE:—Capitals indicate averages for a complete period of 30 years.

TABLE 4.—BRIGHT SUNSHINE.

Month	Total Hours Bright Sunshine	Average for 30 years 1906-1935	Hours Daily Mean	Percentage of average %	Days with Sunshine	Most in one day Hours	Monthly Totals		
							Highest	Year	Lowest
							Hours	Year	Hours
January ..	72.3	66	2.5	109	18	6.6	109.9	1940	34.5
February ..	76.8	89	2.8	88	21	8.6	140.3	1949	29.8
March ..	115.3	144	3.7	80	23	9.9	220.8	1907	95.3
April ..	213.7	181	7.1	118	28	13.3	267.2	1912	105.3
May ..	203.4	231	6.6	88	29	14.7	353.1	1909	148.9
June ..	294.0	236	9.8	125	29	15.1	318.8	1925	143.5
July ..	239.2	233	7.7	103	29	15.1	369.0	1911	133.8
August ..	198.1	216	6.4	92	29	14.5	298.4	1899	112.6
September ..	129.2	180	4.3	72	27	9.7	262.6	1898	97.1
October ..	152.7	123	4.9	124	26	9.7	181.6	1919	81.9
November ..	78.9	80	2.6	99	19	8.3	131.3	1909	44.4
December ..	64.8	55	2.1	117	19	6.8	96.0	1946	31.1
Year 1951 ..	1838.4	1834	5.03	100	297	15.1	369.0	July 1911	31.1
									Dec. 1903
Highest and Lowest Year Totals							2141.0	1899	1600.2
									1913

TABLE 5—BRIGHT SUNSHINE.

Year	Campbell-Stokes Recorder Bright Sunshine Hours	Bright Sunshine Days	Sunniest Days	
			Day	Hours
1931	1610.5	309	June 27th	15.0
1932	1616.7	313	June 15th	15.0
1933	2102.6	323	July 4th	15.2
1934	1811.0	289	July 10th	15.5
1935	1805.2	309	July 8th	15.0
1936	1675.0	310	June 23rd	15.2
1937	1668.3	317	June 6th	14.4
1938	1796.4	310	June 21st	15.3
1939	1809.7	310	June 1st	15.4
1940	1976.8	323	July 1st	15.2
1941	1791.7	317	June 25th	15.2
1942	1711.6	312	June 5th	14.8
1943	1864.8	313	June 24th	14.9
1944	1765.5	315	June 24th	14.9
1945	1783.9	309	June 17th	14.8
1946	1790.7	307	July 10th	15.1
1947	1896.8	294	June 10th	14.9
1948	1916.9	319	May 18th	14.9
1949	2128.9	317	July 10th	14.8
1950	1805.4	312	June 16th	15.1
1951	1838.4	297	June 19th	15.1
Average for 20 years 1931—1950	1908.3	311		

TABLE 6—RAINFALL.

1951	Total Rain-fall	Difference from the Normal	Greatest Fall in 24 hours beginning 9 a.m.	Number of Days with		Total Rain Days
				.01 in. or more	.04 in. or more	
January ..	ins. 3.37	ins. +1.05	ins. 0.73	19	15	19
February ..	5.49	+3.52	0.75	23	20	23
March ..	3.44	+1.48	0.69	21	16	21
April	2.39	+0.82	0.58	17	13	17
May	2.36	+0.71	0.97	12	10	12
June	1.88	+0.15	1.40	8	4	8
July	2.77	+0.73	1.21	6	3	6
August ..	4.14	+1.90	1.32	18	15	18
September ..	3.46	+1.34	1.09	14	10	14
October ..	1.37	-2.25	0.55	9	6	9
November ..	4.57	+1.39	0.72	22	21	22
December ..	2.74	-0.29	0.65	15	13	15
Year	37.98	+10.55	1.40	184	146	184

TABLE 7—RAINFALL.

Year	Rainfall in inches	No. of Days Rain fell (0.01 inch or more)	Greatest Fall in a Day	
			Amount in inches	Day and Month
1931	25.80	147	1.25	10th November
1932	23.91	148	1.22	20th October
1933	20.40	125	1.44	12th September
1934	27.49	139	1.62	8th November
1935	37.74	173	1.39	7th November
1936	27.42	169	1.79	6th November
1937	31.59	162	0.87	4th February
1938	22.95	156	0.75	24th September
1939	34.42	171	1.41	13th October
1940	30.13	148	1.50	3rd November
1941	25.83	139	1.36	4th June
1942	24.62	129	1.06	25th October
1943	23.68	145	1.74	13th January
1944	22.14	136	1.22	20th October
1945	22.98	138	2.05	10th July
1946	30.96	170	2.02	16th August
1947	24.31	139	0.94	10th March
1948	25.23	154	1.41	6th August
1949	23.90	120	1.34	20th October
1950	26.95	157	0.89	20th November
Average for 20 years	26.62	148	2.05	10th July 1945
1951	37.98	184	1.40	11th June

TABLE 8—BAROMETRIC PRESSURE AND TEMPERATURE.

1951	Barometric Pressure (Reduced to Sea Level and 32° Fahr.)			Air Temperature in Screen					
	Mean Inches.	Extremes.		Means of		Mean of A & B	Difference from Normal	Extremes	
		Highest	Lowest	A Max.	B Min.			Max.	Min.
January	29.782	30.470	28.988	45	37	41	+0.7	50	22
February	29.618	30.345	28.758	46	37	42	+1.3	50	31
March	29.769	30.382	29.099	47	37	42	-1.1	52	30
April	29.960	30.337	29.122	53	40	47	—	73	33
May	29.930	30.227	29.520	58	48	53	-0.9	65	39
June	30.025	30.379	29.785	64	52	58	-0.2	73	46
July	30.114	30.366	29.761	69	57	63	+1.2	76	48
August	29.870	30.227	29.529	67	57	62	-0.3	73	48
September	30.008	30.354	29.589	65	55	60	+1.0	76	46
October	30.110	30.441	29.754	58	47	52	-0.2	65	33
November	29.677	30.608	29.905	56	46	51	+4.1	60	32
December	30.022	30.461	29.273	49	40	45	+2.5	53	27
Year 1951	29.907	30.608	28.758	56	46	51	+0.5	76	22

TABLE 9—WINDS.

Month.	9 a.m. OBSERVATIONS.—DIRECTION.								
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm
January ..	2	2	—	—	3	14	3	7	—
February ..	1	3	1	3	4	8	6	2	—
March ..	3	5	—	6	2	6	3	6	—
April ..	1	6	1	3	1	7	7	4	—
May ..	6	9	—	4	5	5	—	2	—
June ..	2	4	2	5	2	8	5	2	—
July ..	1	2	1	2	6	11	3	5	—
August ..	—	1	—	2	2	17	4	5	—
September ..	2	5	—	3	4	4	5	2	5
October ..	3	11	4	4	2	3	—	2	2
November ..	1	—	2	3	5	6	2	5	6
December ..	—	1	—	3	2	8	8	5	4
Year 1951 ..	22	49	11	38	38	97	46	47	17

Month.	6 p.m. OBSERVATIONS.—DIRECTION.								
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm
January ..	1	3	1	1	2	10	5	8	—
February ..	1	5	—	1	3	12	4	2	—
March ..	1	5	—	7	1	10	3	4	—
April ..	1	4	1	5	1	4	9	5	—
May ..	4	10	1	6	1	6	1	2	—
June ..	—	3	2	5	3	7	8	2	—
July ..	1	2	1	1	—	13	10	3	—
August ..	1	—	—	1	3	15	7	4	—
September ..	—	5	3	2	2	7	5	4	2
October ..	6	4	5	4	2	2	—	5	3
November ..	3	—	2	2	4	8	6	5	—
December ..	2	—	—	3	2	10	10	4	—
Year 1951 ..	21	41	16	38	24	104	68	48	5

TABLE 10—VISIBILITY.

Summary of observations taken at 9 a.m. and 6 p.m.

MONTH	FOG						MIST OR HAZE						GOOD VISIBILITY									
	A		B & C		D & E		F	G	H	I	J	K	L	M								
	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.	9 a.m.	6 p.m.
January ..	—	—	1	—	—	1	1	2	1	8	10	8	6	5	6	3	6	2	—	1	—	—
February ..	—	—	—	—	—	—	2	—	4	3	6	3	3	8	9	3	3	2	2	2	1	—
March ..	—	—	—	—	—	—	1	—	3	5	4	4	11	10	4	3	4	1	3	5	2	—
April ..	—	—	—	—	—	—	—	1	—	1	—	4	9	7	6	8	4	6	5	3	5	—
May ..	—	—	—	—	—	—	—	1	1	—	—	7	5	9	9	7	2	3	3	4	11	—
June ..	—	—	—	—	—	—	1	—	—	1	—	1	5	8	6	10	8	3	4	6	7	—
July ..	—	—	—	—	—	—	—	1	2	1	—	1	3	10	4	2	6	8	4	8	11	—
August ..	—	—	—	—	—	—	—	—	—	—	—	2	2	7	6	5	4	7	4	10	15	—
September ..	—	—	—	—	—	—	1	—	—	1	2	6	4	12	8	4	9	3	2	3	4	—
October ..	—	—	—	—	—	—	1	3	2	4	4	10	11	5	5	5	1	2	2	2	3	—
November ..	—	—	—	—	—	—	—	—	—	3	1	4	5	7	10	7	8	6	3	3	2	—
December ..	—	—	—	—	—	—	2	7	1	7	9	5	7	3	2	2	3	1	4	4	3	—
Year 1951 ..	—	—	1	—	—	1	9	10	21	14	34	36	55	71	91	75	58	44	36	51	64	—

KEY TO TABLE 10—VISIBILITY.

Letter	Standard Distance	Actual Distance	Description of visibility	Object	View Point	Bearing
A	22 yards	21 yards	Dense Fog	Chestnut tree on opposite side of road	Office Door	S.E.
B	44 yards	45 yards	Dense Fog	Chestnut tree outside entrance to "Ryecroft"	Office Gate	E.
C	110 yards	110 yards	Thick Fog	N.W. corner of Town Hall	Office Gate	E.
D	220 yards	220 yards	Fog	Christ Church Tower	Office Window	S.
E	440 yards	430 yards	Moderate Fog	Holy Trinity Church Spire	Christ Church Tower	S.W.
F	1100 yards	1100 yards	Mist or Haze	Heene Church Tower	" "	W.
G	1½ miles	1¼ miles	Poor	Tarring Church Tower	" "	N.W.
H	2½ miles	2¼ miles	Moderate	Top of High Salvington Hill	" "	N.W.
I	4½ miles	4¼ miles	Good	Highdown Hill	" "	W.N.W.
J	6¼ miles	6⅝ miles	Good	Portslade Gas Works Chimney	" "	E.
K	12½ miles	12½ miles	Very Good	Hills beyond Brighton	" "	E.
L	18⅔ miles	18¼ miles	Excellent	Selsey Bill	" "	W.S.W.
M	25 miles	27 miles	Abnormal	Beachy Head	" "	E.S.E.

TABLE 11—CLIMATE OF WORTHING—1881—1951.

Year	Temperatures							Rainfall		Sunshine	Year
	Means					Extremes		Amount at Observ- atory	Number of days rain fell	Number of hours in year	
	9 a.m.	Min.	Max.	Range	Mean	Min.	Max.				
1881 ..	50.3	43.4	55.0	11.6	49.2	13.5	82.0	29.60	142	—	..1881
1882 ..	51.6	45.1	56.5	11.4	50.8	26.6	81.0	32.35	180	—	..1882
1883 ..	50.7	43.9	55.9	12.0	49.9	23.3	75.7	26.05	174	—	..1883
1884 ..	52.0	45.6	56.8	11.2	51.2	27.0	83.3	23.51	126	—	..1884
1885 ..	50.0	48.7	55.1	11.4	49.4	25.2	81.7	28.09	156	—	..1885
1886 ..	50.0	44.0	55.2	11.2	49.6	23.2	78.0	31.89	164	—	..1886
1887 ..	48.4	41.6	54.1	12.5	47.9	17.4	82.0	21.28	137	—	..1887
1888 ..	48.0	42.4	53.3	10.9	47.8	20.2	78.8	25.88	181	—	..1888
1889 ..	49.5	42.7	54.8	12.1	48.8	21.9	81.5	23.92	159	—	..1889
1890 ..	49.4	42.2	54.6	12.4	48.4	14.9	78.0	22.84	149	—	..1890
1891 ..	49.4	42.4	54.8	12.2	48.4	16.5	77.0	29.86	172	—	..1891
1892 ..	49.1	41.8	54.5	12.7	48.2	20.2	76.0	23.73	141	—	..1892
1893 ..	52.3	44.0	57.7	13.7	50.9	18.2	84.7	25.12	142	—	..1893
1894 ..	51.2	44.9	52.8	10.9	50.3	12.9	80.2	35.71	184	—	..1894
1895 ..	50.4	43.0	56.5	12.5	49.3	16.2	77.9	26.09	162	—	..1895
1896 ..	51.0	43.3	56.5	13.2	49.9	22.9	80.7	25.74	152	—	..1896
1897 ..	51.4	44.7	56.9	12.2	50.8	21.9	80.7	26.07	172	—	..1897
1898 ..	52.2	45.7	57.6	11.9	51.6	27.0	80.9	22.51	158	—	..1898
1899 ..	51.9	45.0	57.6	12.6	51.3	23.6	84.4	26.23	144	2141.0	..1899
1900 ..	51.2	44.9	56.2	11.3	50.6	20.9	79.0	26.33	182	1885.6	..1900
1901 ..	50.2	43.6	55.8	12.2	49.7	22.9	80.7	21.45	139	2017.0	..1901
1902 ..	50.2	43.6	55.0	11.1	49.6	21.8	78.0	23.77	157	1661.7	..1902
1903 ..	50.9	45.2	55.4	10.2	50.3	23.7	78.2	32.19	189	1749.2	..1903
1904 ..	50.4	44.3	55.5	11.2	49.9	23.8	77.4	26.85	163	1748.4	..1904
1905 ..	50.1	42.2	55.6	11.4	49.1	23.9	77.1	24.63	162	1715.3	..1905
1906 ..	50.6	44.3	56.1	11.8	50.2	24.9	78.6	30.44	173	2010.6	..1906
1907 ..	50.2	45.1	54.8	9.5	50.0	20.4	76.1	21.78	158	1776.8	..1907
1908 ..	50.9	44.1	56.1	12.1	50.1	16.0	80.2	22.15	146	1991.3	..1908
1909 ..	49.7	43.0	54.6	11.6	48.8	19.9	81.2	32.11	178	1958.6	..1909
1910 ..	50.8	44.5	55.9	11.5	50.1	21.9	73.8	32.57	191	1731.0	..1910
1911 ..	52.8	45.1	58.0	12.9	51.5	25.4	87.9	31.68	149	2115.0	..1911
1912 ..	51.6	45.0	56.6	11.6	50.8	19.0	84.2	35.95	192	1609.9	..1912
1913 ..	52.1	45.9	57.4	11.5	51.6	26.2	79.0	34.98	170	1600.2	..1913
1914 ..	52.7	45.2	57.9	12.7	51.5	23.2	78.2	31.31	164	2000.5	..1914
1915 ..	51.1	43.8	56.3	11.8	50.5	24.7	77.1	36.64	152	1801.3	..1915
1916 ..	51.2	44.7	56.3	11.6	50.5	25.0	77.0	32.89	182	1658.0	..1916
1917 ..	49.2	43.0	54.6	11.6	48.8	20.7	79.0	25.49	147	1804.7	..1917
1918 ..	51.0	44.7	56.5	11.8	50.6	20.0	78.0	24.41	165	1856.5	..1918
1919 ..	49.4	42.9	54.9	12.0	48.9	22.0	78.5	28.54	158	1788.5	..1919
1920 ..	51.7	45.6	56.6	11.0	51.1	23.0	76.0	26.40	139	1692.1	..1920
1921 ..	53.4	46.4	58.8	12.4	52.6	27.6	86.7	13.26	108	2101.5	..1921
1922 ..	50.1	43.9	54.8	10.9	49.3	25.2	78.2	25.71	159	1781.2	..1922
1923 ..	50.8	44.5	55.6	11.1	50.1	24.0	86.0	30.62	170	1805.9	..1923
1924 ..	50.8	45.4	55.3	9.9	50.3	25.0	74.6	32.65	159	1759.6	..1924
1925 ..	49.8	44.7	55.9	11.2	50.3	24.0	80.2	34.70	158	1955.8	..1925
1926 ..	51.6	45.7	56.7	11.0	51.2	21.8	83.3	28.57	160	1677.7	..1926
1927 ..	50.8	45.0	55.8	10.8	50.4	22.4	78.1	34.88	165	1731.4	..1927
1928 ..	51.9	45.1	57.0	11.9	51.0	21.6	82.0	32.84	161	1999.1	..1928
1929 ..	50.9	44.1	56.0	11.9	50.0	13.0	80.0	29.71	134	2062.5	..1929
1930 ..	52.0	46.9	56.4	9.5	51.3	26.0	82.6	28.31	169	1821.4	..1930
1931 ..	51.0	45.0	55.0	10.0	50.0	21.0	77.0	25.80	147	1610.5	..1931
1932 ..	50.5	45.1	55.8	10.7	50.5	23.0	80.0	23.91	148	1616.7	..1932
1933 ..	52.0	45.5	56.4	10.9	51.2	23.6	81.2	20.40	125	2102.6	..1933
1934 ..	52.1	45.6	57.5	11.9	51.8	24.0	82.0	27.49	139	1811.0	..1934
1935 ..	51.8	46.1	56.6	10.5	51.3	25.6	83.8	37.74	173	1805.2	..1935
1936 ..	51.3	45.4	55.9	10.5	50.7	27.1	81.3	27.42	169	1675.0	..1936
1937 ..	51.5	46.3	57.2	10.9	51.8	26.0	76.8	31.59	162	1668.3	..1937
1938 ..	52.7	46.1	57.1	11.0	51.6	19.5	82.5	22.95	156	1796.4	..1938
1939 ..	51.8	45.8	56.5	10.7	51.2	20.0	81.5	34.42	171	1809.7	..1939
1940 ..	50.0	45.0	56.0	11.0	50.5	16.0	80.0	30.13	148	1976.8	..1940
1941 ..	50.3	44.0	56.0	12.0	50.0	22.0	83.0	25.83	139	1791.7	..1941
1942 ..	50.0	44.8	55.3	10.5	50.5	19.0	83.0	24.62	129	1711.6	..1942
1943 ..	52.0	46.0	58.0	12.0	52.0	28.0	80.0	23.68	145	1864.8	..1943
1944 ..	51.3	45.4	56.2	10.8	50.8	26.0	81.0	22.14	136	1765.5	..1944
1945 ..	52.5	46.5	57.2	10.7	51.2	19.0	80.0	22.98	138	1783.9	..1945
1946 ..	51.6	45.5	55.7	10.2	50.6	23.0	76.0	30.96	170	1790.7	..1946
1947 ..	51.3	45.7	56.1	10.4	50.9	15.0	90.0	24.31	139	1896.8	..1947
1948 ..	52.6	46.6	57.6	11.0	52.1	17.0	88.0	25.23	154	1916.9	..1948
1949 ..	53.3	47.2	58.4	11.2	52.8	29.0	81.0	23.90	120	2128.9	..1949
1950 ..	52.1	46.1	56.7	10.6	51.4	24.0	81.0	26.95	157	1805.4	..1950
1951 ..	51.9	46.0	56.3	10.3	51.2	22.0	76.0	37.98	184	1838.4	..1951



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